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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/598,010	06/20/2000	Antoine Bastard	P/3255-43	5043
2352	7590	12/20/2004	EXAMINER	
OSTROLENK FABER GERB & SOFFEN 1180 AVENUE OF THE AMERICAS NEW YORK, NY 100368403			LAZOR, MICHELLE A	
			ART UNIT	PAPER NUMBER
			1734	

DATE MAILED: 12/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/598,010	BASTARD ET AL.	
	Examiner	Art Unit	
	Michelle A Lazor	1734	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 19-54 is/are pending in the application.
- 4a) Of the above claim(s) 42-54 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 20, 27-30, 36 and 40 is/are rejected.
- 7) ☒ Claim(s) 19, 21-26, 31-35 and 37-39 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Election/Restrictions

1. Newly submitted claims 42 – 54 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: The pipe may be constructed using a different method, such as one which does not cure the compound in the annular region.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 42 – 54 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 20, 27, 28, 30, 36, 40 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Picking (U.S. Patent No. 5860453) in view of Ziu (U.S. Patent No. 4786088) and Pool et al. (U.S. Patent No. 6402201).

Regarding Claims 20, 40 and 41, Picking discloses a method of manufacturing a reelable double-walled pipe comprising an inner flow pipe, an outer carrier pipe which surrounds the flow pipe, and a plurality of separating elements between the inner and outer pipes which define an annular space therebetween (Figures 1 and 2), the method comprising having suitable

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mechanical properties which permit the double walled pipe to be plastically deformed for reeling on a vessel reel and then straightened while being laid offshore; installing a plurality of sealing blocks axially spaced apart on the outer wall of the flow pipe including a plurality of pairs of axially spaced sealing blocks, thereby defining a plurality of annular regions, installing the outer carrier pipe around the flow pipe and the sealing blocks, the sealing blocks having radially opposite faces and being dimensioned to be in contact respectively with the outer and inner walls of the flow pipe and the carrier pipe to define at least one sealed annular regions within the space between the flow pipe and the carrier pipe (column 2, lines 11 – 33); and spacing the sealing blocks so that the axial length of the annular region is in the range of 0.5 times the external diameter of the carrier pipe (Figure 2), but does not specifically disclose selecting the material of the inner pipe and outer pipe to be reflective of the properties of the fluid to be transported and the intended environment of use, respectively; and does not specifically disclose a curable compound being placed in the annular region, and curing the compound. However, Ziu discloses selecting the material of the inner pipe and outer pipe to be reflective of the properties of the fluid to be transported and the intended environment of use, respectively (column 5, lines 43 – 51); and Pool et al. disclose a curable compound being placed in an annular region, and curing the compound (column 4, lines 26 – 62). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to select the material of the inner pipe and outer pipe to be reflective of the properties of the fluid to be transported and the intended environment of use, respectively, to reflect the required performance characteristics and avoid any potential leaking from harsh chemicals (column 5, lines 44 – 48); and it would have been obvious to use a curable compound being placed in an annular region, and curing the compound

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since it is well known and conventional to use a curable foaming compound and curing the compound, such that the process of laying the pipeline is not inhibited (column 4, lines 56 – 57).

Regarding Claims 27, 30, and 36, Pool et al. is considered to disclose an epoxy resin or a polymer (column 4, lines 52 – 57) to fill the empty annular space that is curable at room temperature and has a pot life range of a few minutes to a few weeks (column 5, lines 4 – 17). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use an epoxy resin or a polymer in the annular space since it is quick hardening (column 4, lines 56 – 57); and it would have been obvious to cure the polymer or compound at room temperature and have a pot life of a few minutes to a few weeks to simplify the method of filling the annular space, requiring less time and machinery to adequately fill the annular space.

Regarding Claim 28, Pool et al. disclose the steps of providing an injection orifice through the wall of the carrier pipe into the region and injecting the curable compound into the region through the orifice (Figures 2 – 4; column 4, lines 27 – 34). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to provide an injection orifice through the wall of the carrier pipe into the region and inject the curable compound into the region through the orifice to facilitate filling the annular space with the curable compound.

4. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Picking, Ziu, and Pool et al. as applied in Claim 28 above, in view of Stevens (U.S. Patent No. 5474721).

Regarding Claim 29, Picking, Ziu, and Pool et al. disclose all the limitations of Claim 28, but do not specifically disclose using a thermosetting compound. However, Stevens discloses using a thermosetting compound in an annular region (column 2, line 49 – column 3, line 20).

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Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use a thermosetting compound as an alternative curable compound.

Allowable Subject Matter

5. Claims 19, 21 – 26, 34, 35, and 37 – 39 are objected to, but would be considered allowable as discussed in the Office Action mailed 5/17/04.

Response to Arguments

6. Applicant's arguments with respect to claims 18 – 39 have been considered but are moot in view of the new ground(s) of rejection. In addition, Stevens, Ziu and Pool et al. were not meant to show the capability of arresting longitudinal propagation of buckling of the outer carrier pipe, but instead to show various other limitations of the claims, as discussed above.

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle A Lazor whose telephone number is 571-272-1232.


The examiner can normally be reached on Thurs - Fri 5:45 - 4:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla can be reached on 571-272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


MAL
12/10/04


MICHAEL P. COLAIANNI
SUPERVISORY PATENT EXAMINER